

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (previously presented): An ATM switching equipment comprising:
a switching network;
an input interface unit including an input processing unit;
an output interface unit including an output processing unit;
a microprocessor;
a server switching unit comprising:
an AAL2 switcher that is connected to the switching network via a first interface;
an input processing unit to which said AAL2 switcher is connected; and
an output processing unit to which said AAL2 switcher is connected;
said switching equipment being configured to write a new VPI/VCI information,
including VP/VCI bits, for a further connecting section into cells of arriving data streams upon
utilization of routing tables,
said AAL2 switcher being configured for simultaneous processing of a maximum
plurality of incoming connections, an AAL2 routing list being provided for each of said
incoming connections;
said AAL2 switcher being connected to said switching network without requiring
recognition of all VPINCI bits in the AAL2 switcher; and
said microprocessor limiting the number of bits representing VPINCI bits from among
VPI/VCI bits transmitted in a header of ATM cells to be interpreted according to a number of
ATM connections available for processing, as indicated in said AAL2 routing lists, so that said
first interface considers corresponding VPI/VCI bits.

Claim 2. (previously presented): The ATM switching equipment according to
claim 1, wherein said first interface is a UTOPIA interface.

Claim 3. (previously presented): The ATM switching equipment according to claim 1, wherein a single virtual path is established between said switching network and said server switching unit.

Claim 4. (previously presented): The ATM switching equipment according to claim 1, further comprising:

buffer memories which are allocated to said routing lists; and
a section of an AAL2 packet of an ATM cell being writable into said buffer memories, said section being readable from said buffer memories when processing a next-successive ATM cell and for completion of a remainder of said AAL2 packet.

Claim 5. (new): An ATM switching apparatus, comprising:

a microprocessor; and

a server switching unit, comprising:

an input processing unit;

an AAL2 switcher that is coupled to the input processing unit, and is further coupled to a switching network via a first interface;

an output processing unit, coupled to the AAL2 switcher, wherein the AAL2 switcher simultaneously processes a maximum plurality of incoming connections, and wherein an AAL2 routing list is provided for each of the incoming connections;

wherein the ATM switching apparatus writes new VPI/VCI information including VPI/VCI bits for a further connecting section into cells of arriving data streams using routing tables, and wherein the microprocessor limits the number of bits representing VPI/VCI bits from among VPI/VCI bits transmitted in a header of ATM cells to be interpreted according to a number of ATM connections available for processing as indicated in the AAL2 routing lists, so that the first interface considers corresponding VPI/VCI bits.